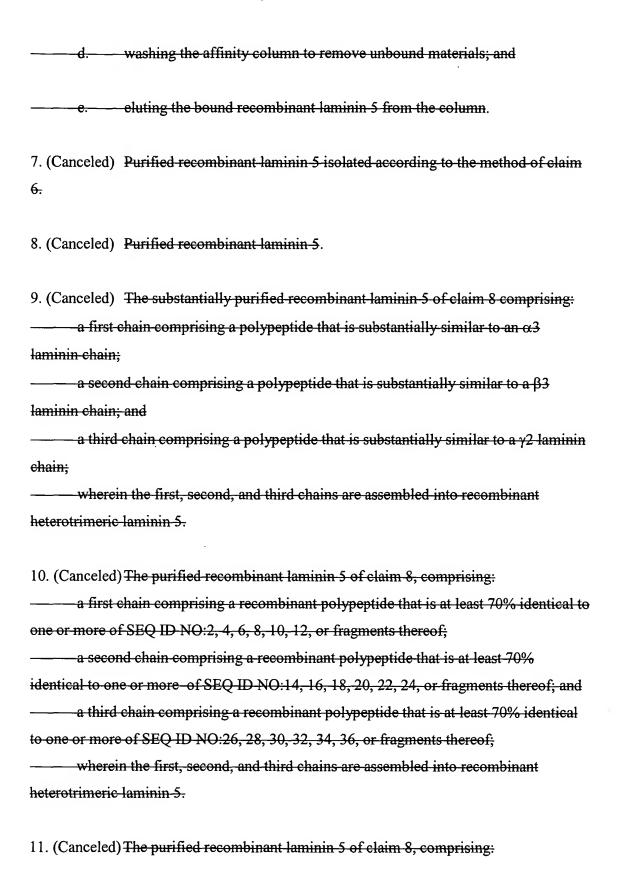
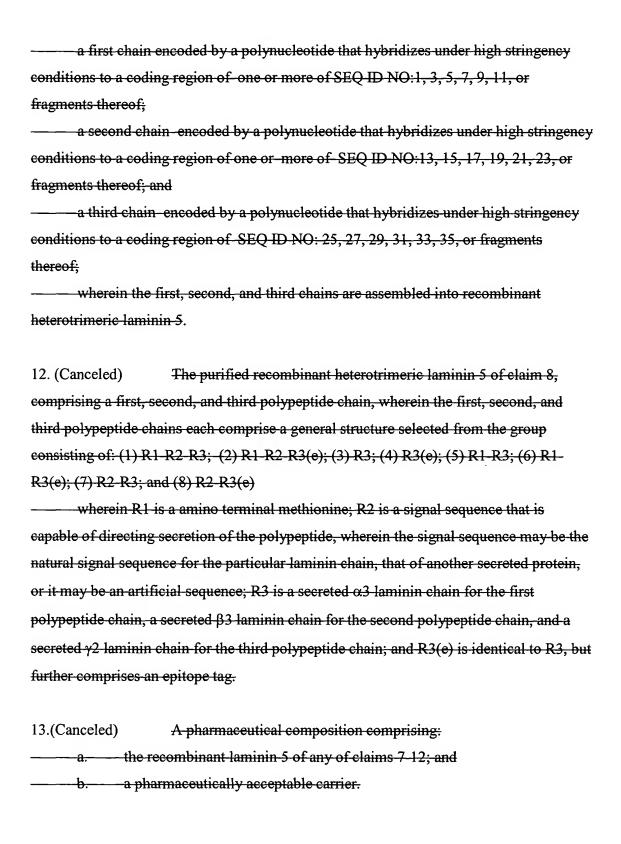
Please amend the claims as follows:

1. (Canceled) Recombinant laminin 5 expressing cells.
2. (Canceled) The recombinant laminin 5 expressing cells of claim 1, wherein the cells
express recombinant laminin 5 comprising:
— a first chain comprising a polypeptide that is substantially similar to an α3
laminin chain;
—— a second chain comprising a polypeptide that is substantially similar to a β3
laminin chain; and
—— a third chain comprising a polypeptide that is substantially similar to a γ2 laminin
chain;
heterotrimeric laminin 5.
3. (Canceled) The recombinant laminin 5 expressing cells of claim 1, wherein the cells
express recombinant laminin 5 comprising:
a first chain comprising a recombinant polypeptide that is at least 70% identical to
one or more of SEQ ID NO:2, 4, 6, 8, 10,12, or fragments thereof;
- a second chain comprising a recombinant polypeptide that is at least 70%
identical to one or more of SEQ ID NO:14, 16, 18, 20, 22, 24, or fragments thereof; and
- a third-chain comprising a recombinant polypeptide that is at least 70% identical
to one or more of SEQ ID NO:26, 28, 30, 32, 34, 36, or fragments thereof;
wherein the cell expresses the first, second, and third chains, and wherein the first
second, and third-chains assemble into recombinant heterotrimeric laminin 5 that is
secreted into the media by the cultured cell.
4. (Canceled) The recombinant laminin 5-expressing cells of claim 1, wherein the cells
express recombinant laminin 5 comprising:
- a first chain encoded by a polynucleotide that hybridizes under high stringency
conditions to a coding region of one or more of SEQ ID NO:1, 3, 5, 7, 9, 11, or

fragments the	reof;
—— a seco	nd chain encoded by a polynucleotide that hybridizes under high stringency
conditions to	a coding region of one or more of SEQ ID NO:13, 15, 17, 19, 21, 23, or
fragments the	reof; and
a third	chain encoded by a polynucleotide that hybridizes under high stringency
conditions to	a coding region of one or more of SEQ ID NO: 25, 27, 29, 31, 33, 35, or
fragments the	r eof;
wherei	in the cell expresses the first, second, and third chains, and wherein the first,
second, and th	aird chains assemble into recombinant heterotrimeric laminin 5 that is
secreted into t	he media by the cultured cell.
5. (Canceled)	The recombinant laminin 5 expressing host cells of claim 1, wherein the
cells express	recombinant laminin 5 comprising a first, second, and third polypeptide
chain, wherei	n the first, second, and third polypeptide chains each comprise a general
structure selec	eted from the group consisting of: (1) R1 R2 R3; (2) R1 R2 R3(e); (3) R3;
(4) R3(e); (5)	R1-R3; (6) R1-R3(e); (7) R2-R3; and (8) R2-R3(e)
wherei	in R1 is a amino terminal methionine; R2 is a signal sequence that is
capable of dire	ecting secretion of the polypeptide, wherein the signal sequence may be the
natural-signal-	sequence for the particular laminin chain, that of another secreted protein,
or it may be a	n artificial sequence; R3 is a secreted α3 laminin chain for the first
polypeptide cl	hain, a secreted β3 laminin chain for the second polypeptide chain, and γ2
laminin chain	for the third polypeptide chain; and R3(e) is identical to R3, but further
comprises an (epitope tag
6. (Canceled)	A method of purifying recombinant laminin 5, comprising:
 a	providing the eukaryotic cells of any one of claim 1-5;
— b.	growing the cells in cell culture medium under conditions to stimulate
expression of	the recombinant laminin 5 chains;
c.	passing the cell culture medium through an affinity chromatography
column, wher	ein the column contains a compound that specifically binds to the epitope
taa:	





- 14. (Canceled)

 A method for accelerating wound healing comprising administering to a patient in need thereof an amount effective of the recombinant laminin 5 of any of claims 7-12 to accelerate wound healing.
- The method of claim-14 wherein the wound is selected from the group consisting of diabetic foot ulcers, venous ulcers, pressure sores, skin-surgery, burns, acute wounds, skin grafts, corneal ulcerations, gastro-intestinal ulcers, periodontitis, and gingivitis.
- 16. (Canceled) A method to improve the biocompatibility of a medical device, comprising contacting the medical device with an amount effective of the recombinant laminin 5 of any of claims 7-12 to improve the biocompatibility of the medical device.
- 17. (Canceled) A method to promote cell adhesion to a surface, comprising contacting the cells with an amount effective of the recombinant laminin 5 of any of claims 7-12 to promote cell adhesion to a surface.
- 18. (Canceled) An improved method for the ex vivo treatment of Type I diabetes in a patient in need thereof, wherein the improvement consists of culturing isolated pancreatic islet beta in the presence of an amount effective the recombinant laminin 5 of any of claims 7-12 to promote adhesion of the pancreatic islet beta cells to a surface, culturing the cells, and re introducing the cells into the patient.
- 19. (Canceled) A method for regulating angiogenesis, comprising contacting a tissue in need thereof with an amount effective to promote angiogenesis of laminin-5 to regulate angiogenesis.
- 20. (Canceled) The method of claim 19, wherein the laminin 5 comprises recombinant laminin 5 according to any one of claims 7-12.

- 21. (Canceled) An improved cell growth substrate, wherein the improvement consists of providing a cell growth substrate that has been coated with an amount effective of the recombinant laminin 5 of any of claims 7-12 to promote cell attachment to the cell growth substrate.
- 22. (Amended) An improved cell culture medium, wherein the improvement consists of providing an amount effective [of recombinant laminin 5 of any of claims 7-12] to promote cell attachment to a cell growth substrate of recombinant laminin 5 comprising:
 - a first, second and third polypeptide chain, wherein the first, second and third polypeptide chains each comprise a general structure selected from the group consisting of: (1) R1-R2-R3; (2) R1-R2-R3(e); (3) R3; (4) R3(e); (5) R1-R3; (6) R1-R3(e); (7) R2-R3; and (8) R2-E3(e)

wherein R1 is an amino terminal methionine; R2 is a signal sequence; R3 is a secreted α3 laminin chain for the first polypeptide chain, a secreted β3 laminin chain for the second polypeptide chain, and a secreted γ2 laminin chain for the third polypeptide chain; and R3(e) is identical to R3, but further comprises an epitope tag.

- 23. (Canceled) An improved medical implantation device, wherein the improvement consists of providing a medical implantation device that has been coated with an amount effective of the recombinant laminin 5 of any of claims 7-12 to promote cell attachment to the medical implantation device.
- 24. (Canceled) The improved medical implantation device of claim 23, wherein the medical implantation device is selected from the group consisting of artificial grafts, indwelling or transcutaneous catheter, polytetrafluoroethylene, needle, metal pin, metal rod, colostomy tube, transcutaneous catheter, dental abutment piece or surgical mesh.

- 25. (Canceled) A method for accelerating wound healing comprising administering to a patient in need thereof an amount effective of the pharmaceutical composition of claim 13 to accelerate wound healing.
- 26. (Canceled) The method of claim 25 wherein the wound is selected from the group consisting of diabetic foot ulcers, venous ulcers, pressure sores, skin surgery, burns, acute wounds, skin grafts, corneal ulcerations, gastro-intestinal ulcers, periodontitis, and gingivitis.
- 27. (Canceled) A-method to improve the biocompatibility of a medical device, comprising contacting the medical device with an amount effective of the pharmaceutical composition of claim 13 to improve the biocompatibility of the medical device.
- 28. (Canceled) A method to promote cell adhesion to a surface, comprising contacting the cells with an amount effective of the pharmaceutical composition of claim 13 to promote cell adhesion to a surface.
- 29. (Canceled) An improved method for the ex vivo treatment of Type I diabetes in a patient in need thereof, wherein the improvement consists of culturing isolated pancreatic islet beta in the presence of an amount effective the pharmaceutical composition of claim 13 to promote adhesion of the pancreatic islet beta cells to a surface, culturing the cells, and re introducing the cells into the patient.
- 30. (Canceled) A method for regulating angiogenesis, comprising contacting a tissue in need thereof with an amount effective to regulate angiogenesis of the pharmaceutical composition of claim 13 to regulate angiogenesis.
- 31. (Canceled) An improved cell growth substrate, wherein the improvement consists of providing a cell growth substrate that has been coated with an amount effective of the pharmaceutical composition of claim 13 to promote cell attachment to the cell growth substrate.

- 32. (Canceled) An—improved—medical—implantation—device,—wherein—the improvement consists of providing a medical implantation device that has been coated with an-amount effective of the pharmaceutical composition of claim 13 to promote cell attachment to the medical implantation device.
- The improved medical implantation device of claim 32, wherein the medical implantation device is selected from the group consisting of artificial grafts, indwelling or transcutaneous catheter, polytetrafluoroethylene, expanded polytetrafluoroethylene, needle, metal-pin, metal-rod, colostomy tube, transcutaneous catheter, dental abutment piece or surgical mesh.
- 34. (Canceled) An isolated polynucleotide sequence selected from the group consisting of SEQ ID 21, SEQ ID NO:23, SEQ ID NO:29, SEQ ID NO:31.
- 35. (Canceled) An isolated polypeptide sequence selected from the group consisting of SEQ ID NO:22, SEQ ID NO:24, SEQ ID NO:30, and SEQ ID NO:32.

Please add the following new claims:

- 36. (New) The improved cell culture medium of claim 22, wherein at least one of the first, second and third polypeptide chains comprise a polypeptide chain selected from the group consisting of: (1) R1-R2-R3(e); (2) R3(e); (3) R1-R3(e); and (4) R2-E3(e).
- 37. (New) The improved cell culture medium of claim 22, wherein at least two of the first, second and third polypeptide chains comprise a polypeptide chain selected from the group consisting of: (1) R1-R2-R3(e); (2) R3(e); (3) R1-R3(e); and (4) R2-E3(e).

38. (New)	The improved cell culture medium of claim 22, wherein the first chain
comp	rises a polypeptide selected from the group consisting of SEQ ID NO: 2,
4, 6, 8	3, 10 or 12;
	the second chain comprises a polypeptide selected from the group
consi	sting of SEQ ID NO: 14, 16, 18, 20, 22 or 24; and
	the third chain comprises a polypeptide selected from the group
consi	sting of SEO ID NO: 26, 28, 30, 32, 34 or 36.

39. (New) The improved cell culture medium of claim 22, wherein the recombinant laminin 5 is present at a concentration of between 1 ng/ml and 10 mg/ml.

Support for the new claims and amendments:

The amendments and new claims are fully supported in the claims as originally filed, and thus do not constitute new matter.

If there are any questions or comments regarding this Preliminary Amendment, the Examiner is encouraged to contact the undersigned patent agent as indicated below.

Date: 6/25/03

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Respectfully submitted,

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